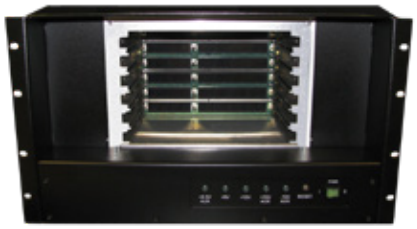
Atrenne
A Celestica Company

DT-CC

HIGH-POWER CONDUCTION-COOLED VPX REDI RACKMOUNT/DESKTOP CHASSIS

BENEFITS

- High performance rackmount/desktop development chassis
- Advanced side-to-side cooling design for greater than 150W per slot
- Supports 6U backplanes OpenVPX, VPX-REDI, VPX™
- Available with Gen-3 10 Gbaud backplanes



The DT-CC is a horizontally-oriented, rackmount/desktop chassis for high-powered, 6U, conduction-cooled VPX modules. Horizontal air-flow cools over 150W per slot to support state-of-the-art processor boards.

This chassis family is part of the industry leading Atrenne, a Celestica company, product line of high performance chassis and backplanes.

FEATURES

- High performance rackmount/desktop development chassis
- Side-to-side cooling for greater than 150W per slot
- Supports 6U backplanes OpenVPX™, VPX-REDI™, VPX™
- VPX REDI designed to the latest ANSI/VITA 48.0, ANSI/VITA 48.2, ANSI/VITA 46.0, ANSI/VITA 46.10, ANSI/VITA 46.3, ANSI/VITA 46.4, ANSI/VITA 46.6, ANSI/VITA 46.7, VITA 46.8 VDSTU, VITA 68 and ANSI/VITA 65 OpenVPX standards
- 6U x 160 mm card cage with x6 1.0" pitch positions per ANSI/VITA 48.2 REDI
- 6U x 80 mm Rear Transition Modules (RTMs) per ANSI/VITA 46.10 (for VPX) and IEE 1101.11
- Pac-2000® modular design
- High performance fans provide a <55°C chassis conduction rail temperature at 25°C and 150W per slot.
- Fan monitor speed control
- 1900W power supply supports a wide range of 12V and 5V powered VPX cards
- DC Power:
- +12V @ 75A (VITA 46 VS1 and VS2 supply)
- +5V @ 100A (VITA 46 VS3 supply)
- +3.3V @ 40A (VITA 46 3.3 VAUX)
- +12V @ 17A (VITA 46 +12 VAUX)
- -12V @ 17A (VITA 46 -12 VAUX)

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- Front panel DC-enable power switch, system reset, ESD jack and power LED indicators
- NEW! This chassis is now available with our new Gen-3 backplanes rated for 10.3 Gbaud!

TABLE 1: TECHNOLOGY OVERVIEW

PHYSICAL	
Width	17.18"
Height	10.47" 6U EIA Rackmount
Depth	16.00"
Weight	44 lbs
CONSTRUCTION	
Extrusions	6063-T6 Aluminum, precision grade with clear iridite plating
Covers	.090" thick aluminum, 5052-H32 with clear iridite plating
Card Guides (RTM)	Molded plastic, Noryl N190X black, UL94-V0
POWER	
AC Input	· 20 A AC line input · AC Input: 110/220 VAC · x2 line cords provided: · 132-074; 115 VAC, 20 A · 132-075; 220 VAC,15 A · Rear line voltage inlet connector, RFI line filter, rear circuit breaker
ENVIRONMENTAL	
Temperature (operating)	· 0 to 40ºC at 150W per slot with 70ºC card rail or · 0 to +40°C at 75W per slot with 55ºC card rail · Limited to 0 to +25°C at 150W per slot with 55C card rail
Safety Agencies	Designed to meet UL60950; CSA 22.2 #234; TÜV EN60950
Flammability Rating	UL94-V0
Earthing	ESD ground clip designed to comply with the earthing requirements of IEEE 1101.11 Section 15, IEC60950 Section 2 Power Input

TABLE 2: CHASSIS AND POWER SUPPLY CONFIGURATION OPTIONS (continued on next page)

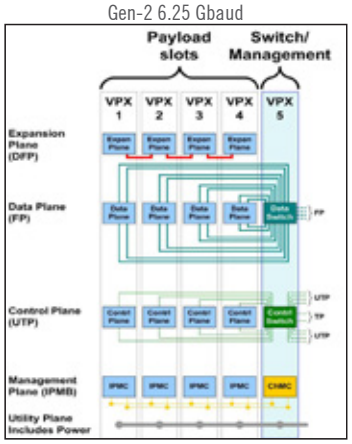
CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
DT-CC-A12OVP05C1	6U VPX 5-slot OpenVPX BKP6-CEN05-11.2.5-3 Central switch topology with 4x fat pipe data plane 2x ultra thin pipe control plane Dual fat pipe expansion plane	1900W	024-900-05-CEN1-01 Gen-2 6.25 Gbaud 

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TABLE 2: CHASSIS AND POWER SUPPLY CONFIGURATION OPTIONS (continued from previous page)

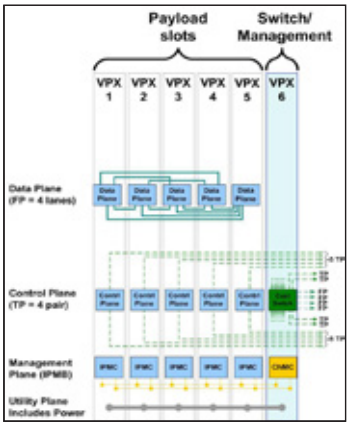
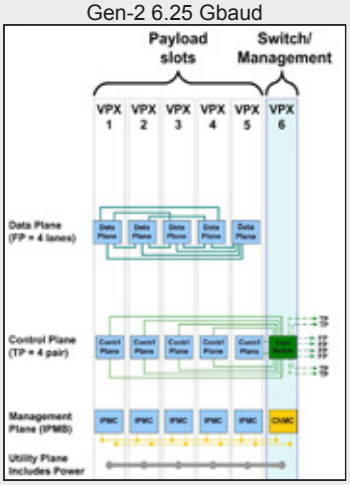
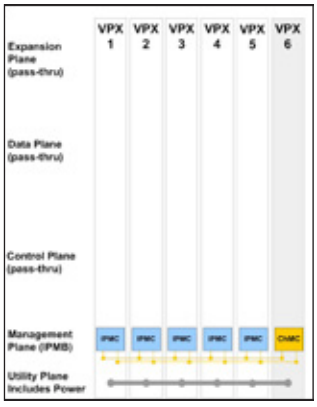
CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
DT-CC-A12VPX06	6U VPX 6-slot OpenVPX BKP6-DIS06-11.2.15-1 Distributed topology with 5-slot full mesh fat pipe data plane No control plane No expansion plane	1900W	024-900-06-01 Gen-1 3.125 Gbaud 
DT-CC-A12OVP06D1	• 6U VPX • 6-slot OpenVPX • BKP6-DIS06-11.2.10.3	1900W	024-900-06-DIS1-01 Gen-2 6.25 Gbaud 
DT-CC-A12OVP06X1	6U VPX 6-slot OpenVPX Pass-thru	1900W	024-900-06-X1-01 - Pass-thru 

TABLE 2: CHASSIS AND POWER SUPPLY CONFIGURATION OPTIONS (continued from previous page)

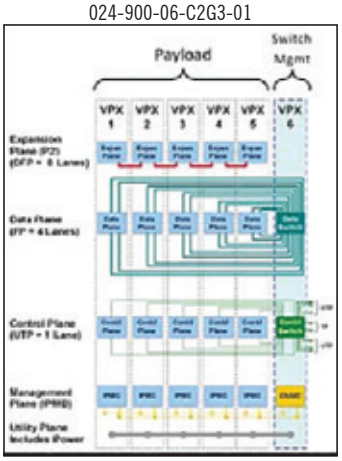
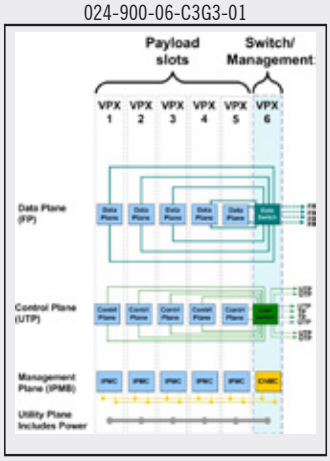
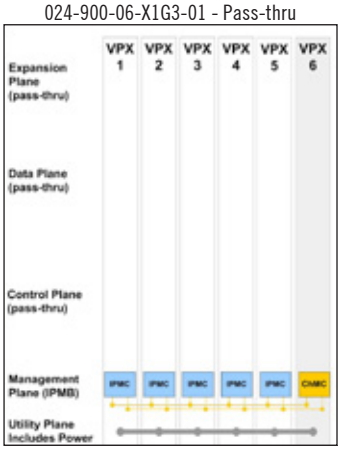
CONFIGURATIONS	BACKPLANE	POWER SUPPLY	OPENVPX PROFILE DIAGRAM
DT-CC-A12OVP6C2G3	6U VPX 6-slot OpenVPX BKP6-CEN06-11.2.25-4 10.3 GBaud - NEW! Central switch topology with 4x fat pipe data plane 2x ultra thin pipe control plane Dual fat pipe expansion plane	1900W	024-900-06-C2G3-01 
DT-CC-A12OVP6C3G3	VPX 6-slot OpenVPX BKP6-CEN06-11.2.23-4 10.3 Gbaud - NEW! Central switch topology with 2x fat pipe data plane 2x ultra thin pipe control plane No expansion plane	1900W	024-900-06-C3G3-01 
DT-CC-A12OVP6X1G3	6U VPX 6-slot OpenVPX Pass-thru 10.3 Gbaud - NEW!	1900W	024-900-06-X1G3-01 - Pass-thru 

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TABLE 3: ORDERING INFORMATION

PART NUMBER: DT-CC			A	1	2	XXXXX
CONFIGURATION						
(A) = 6 slots, 1" pitch			X			
POWER SUPPLY						
(1) = 1900W	VS1/VS2: +12V @ 75A VS3: +5V @ 100A	+3.3 VAUX @ 40A +/- 12 VAUX @ 17A		X		
POWER INLET						
(2) = 20A AC Inlet					X	
BACKPLANE						
(VPX06) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), 5 payload slots, mesh data fabric slots 1-5, 1 uncommitted switch slot, 3.125 Gbaud, with rear transition connectors, OpenVPX Profile BKP6-DIS06-11.2.15-1, P/N=024-900-06-01						
(OVP05C1) = 6U, 5-slot VPX REDI 1" pitch (6 slots wide), 4 payload slots, 1 data & control switch slot, star fabric topology, 6.25 Gbaud, with rear transition connectors, OpenVPX Profile BKP6-CEN05-11.2.5-3, P/N=024-900-05-CEN1-01						
(OVP06C1) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), 5 payload slots, 1 data switch slot, star fabric topology, 6.25 Gbaud with rear transition connectors, OpenVPX Profile BKP6-CEN06-11.2.8-3, P/N=024-900-06-CEN1-01						
(OVP06D1) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), 5 payload slots, mesh data fabric slots 1-5, 1 control switch slot, 6.25 Gbaud with rear transition connectors, OpenVPX Profile BKP6-DIS06-11.2.10-3, P/N=024-900-06-DIS1-01						XXXXX
(OVP06X1) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), no data plane, control plane, or expansion plane fabric connectivity, all fabric signals pass through to RTM connectors for user, 6.25 Gbaud, P/N=024-900-06-X1-01						
(OVP6C2G3) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), 5 payload slots, 1 data & control switch slot, star fabric topology, with expansion plane, Gen-3 10.3 Gbaud with rear transition connectors, OpenVPX Profile BKP6-CEN06-11.2.25-4 , P/N=024-900-06-C2G3-01 - NEW!						
(OVP6C3G3) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), 5 payload slots, 1 data & control switch slot, star fabric topology, no expansion plane, Gen-3 10.3 Gbaud with rear transition connectors, OpenVPX Profile BKP6-CEN06-11.2.23-4, P/N=024-900-06-C3G3-01 - NEW!						
(OVP6X1G3) = 6U, 6-slot VPX REDI 1" pitch (7 slots wide), no data plane, control plane, or expansion plane fabric connectivity, all fabric signals pass through to RTM connectors for user, Gen-3, 10.3 Gbaud, P/N=024-900-06-X1G3-01 - NEW!						

WARRANTY

This product has a one year warranty.

CONTACT INFORMATION

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